



BIOLOGY

Time Remaining: 45/45 (Minutes)

Q.1

Test 5 Cell Structure and Function A

Biology Unit Wise

What is the primary difference between prokaryotes and eukaryotes?

- (a) Prokaryotes have cell wall and eukaryotes lack it
- (b) Prokaryotes lack mitochondria while eukaryotes have them
- (c) Prokaryotes do not have distinct nucleus and eukaryotes have a distinct nucleus
- (d) Both 'a' & 'b'

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Correct Answer:

- A
- B
- C
- D

Next



Time Remaining: 44/45 (Minutes)

Q.2

Test 5 Cell Structure and Function A

Biology Unit Wise

Cytoplasm of plant cell is:

- (a) Less viscous than animal cell
- (b) More viscous than animal cell
- (c) Equal in viscosity to the animal cell
- (d) None of these

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Correct Answer:

- A
- B
- C
- D

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Time Remaining: 44/45 (Minutes)

Q.3

Test 5 Cell Structure and Function A

Biology Unit Wise

Regarding Eukaryotes & Prokaryotes, which statement is correct?

- (a) Eukaryotes are multicellular organisms only
- (b) Eukaryotes & Prokaryotes both are multicellular organisms
- (c) Eukaryotes may be unicellular or multicellular organisms
- (d) Prokaryotes may be unicellular or multicellular organisms

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Correct Answer:

 A B C D

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Time Remaining: 44/45 (Minutes)

Q.4

Test 5 Cell Structure and Function A

Biology Unit Wise

The main difference between animal and plant cell is that:

- (a) Animal cell lack rigid cell wall
- (b) Animal cells have vacuoles
- (c) Plant cell lack rigid cell wall
- (d) Plant cells have small vacuoles

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Correct Answer:

- A
- B
- C
- D

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Time Remaining: 44/45 (Minutes)

Q.5

Test 5 Cell Structure and Function A

Biology Unit Wise

Which of the following organelles is present in both prokaryotic and eukaryotic cells?

- (a) Chloroplast
- (b) Ribosomes
- (c) Mitochondria
- (d) Golgi Complex

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Correct Answer:

- A
- B
- C
- D

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Time Remaining: 43/45 (Minutes)

Q.6

Test 5 Cell Structure and Function A

Biology Unit Wise

A prokaryotic cell lacks:

- (a) True nucleus
- (b) Nuclear envelope
- (c) Membrane bounded organelles
- (d) All the above

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Correct Answer:

- A
- B
- C
- D

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Time Remaining: 43/45 (Minutes)

Q.7

Test 5 Cell Structure and Function A

Biology Unit Wise

Prokaryotic cell does not possess:

- (a) Cell wall
- (b) Nuclear envelope
- (c) Cytoplasm
- (d) Plasma membrane

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Correct Answer:

- A
- B
- C
- D

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Time Remaining: 43/45 (Minutes)

Q.8

Test 5 Cell Structure and Function A

Biology Unit Wise

Protoplasm is the region:

- (a) Between cell membrane & nuclear envelope
- (b) Between cell wall & nuclear envelope
- (c) Inside the cell membrane
- (d) Inside the nuclear envelope

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Correct Answer:

- A
- B
- C
- D

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Time Remaining: 43/45 (Minutes)

Q.9

Test 5 Cell Structure and Function A

Biology Unit Wise

Plant cells have _____ and _____, which are not present in animal cells:

- (a) Mitochondria, chloroplasts
- (b) Cell membranes, cell walls
- (c) Chloroplasts, nucleus
- (d) Chloroplasts, cell wall

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Correct Answer:

- A
- B
- C
- D

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Time Remaining: 42/45 (Minutes)

Q.10 Test 5 Cell Structure and Function A Biology Unit Wise

Which of the following is true about protein layers in the plasma membrane?

- (a) Protein layers are continuous
- (b) Protein layers are confined to the surface of the membrane
- (c) Proteins are embedded in lipid layers in a mosaic manner
- (d) All of the above

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Correct Answer:

- A
- B
- C
- D

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Time Remaining: 42/45 (Minutes)

Test 5 Cell Structure and Function A Biology Unit Wise

Main fabric of the plasma membrane is:

- (a) Phospholipids
- (b) Intrinsic proteins
- (c) Extrinsic proteins
- (d) Cholesterol

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Time Remaining: 42/45 (Minutes)**Test 5 Cell Structure and Function A Biology Unit Wise****Tucked between the hydrophobic tails of the membrane phospholipids are present:**

- (a) Carbohydrates (b) Intrinsic proteins
- (c) Cholesterol (d) Extrinsic proteins

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Time Remaining: 41/45 (Minutes)

Test 5 Cell Structure and Function A Biology Unit Wise

Which one of the following statements is correct?

- (a) The polar portion of cholesterol is facing external to the membrane
- (b) Placement of cholesterol molecules in the membrane interfere the flexibility of lipids hydrocarbon chain
- (c) Cholesterol provides stiffness to membrane
- (d) Cholesterol is absent in bacterial plasma membrane

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Time Remaining: 41/45 (Minutes)

Test 5 Cell Structure and Function A Biology Unit Wise

Carbohydrates in plasma membrane are:

- (a) Attached to proteins or lipids on the extracellular side of the membrane
- (b) On the inner or outer surface of the phospholipid bilayer, but not embedded in its hydrophobic core
- (c) Embedded in the phospholipid bilayer; may extend through both layers
- (d) Embedded in the phospholipid bilayer; may not extend through both layers

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Time Remaining: 41/45 (Minutes)

Test 5 Cell Structure and Function A Biology Unit Wise

How many layers does fluid mosaic model of plasma membrane have?

- (a) 1
- (b) 2
- (c) 3
- (d) 4

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Time Remaining: 41/45 (Minutes)

Q16

Test 5 Cell Structure and Function A Biology Unit Wise

The only difference in the prokaryotic and eukaryotic plasma membranes is:

- (a) Number of layers
- (b) Cholesterol
- (c) Phospholipids
- (d) None of these

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Correct Answer



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Time Remaining: 40/45 (Minutes)

Test 5 Cell Structure and
Function A

Biology Unit Wise

Plasma membrane is:

- (a) Permeable
- (b) Impermeable
- (c) Differentially permeable
- (d) None of these

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Time Remaining: 40/45 (Minutes)



Test 5 Cell Structure and Function A Biology Unit Wise

The continuous part of the plasma membrane is the:

- (a) Carbohydrate
- (b) Phospholipid bilayer
- (c) Nucleotides
- (d) Protein

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Time Remaining: 40/45 (Minutes)



Test 5 Cell Structure and Function A Biology Unit Wise

Cells are:

- (a) Only found in pairs, because single cells cannot exist independently
- (b) Limited in size to 200 and 500 micrometers in diameter
- (c) Characteristic of eukaryotic but not prokaryotic organisms
- (d) Characteristic of prokaryotic and eukaryotic organisms

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Correct Answer

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Time Remaining: 40/45 (Minutes)

Q20

Test 5 Cell Structure and Function A

Biology Unit Wise

In comparison to eukaryotes, prokaryotes:

- (a) Are structurally more complex
- (b) Are larger
- (c) Are smaller
- (d) Do not have membranes

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Time Remaining: 39/45 (Minutes)

Test 5 Cell Structure and
Function A

Biology Unit Wise

Which of the following are found in plant, animal,
and bacterial cells?

- (a) Mitochondria
- (b) Ribosomes
- (c) Chloroplasts
- (d) Endoplasmic reticulum

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Time Remaining 38/45 (Minutes)

Test 5 Cell Structure and
Function A

Biology Unit Wise

What is the function of the nuclear pore complex found in eukaryotes?

- (a) It regulates the movement of proteins and RNAs into and out of the nucleus
- (b) It synthesizes the proteins required to copy DNA and make mRNA
- (c) It synthesizes secreted proteins
- (d) It assembles ribosomes from raw materials that are synthesized in the nucleus

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Time Remaining 38/45 (Minutes)



Test 5 Cell Structure and
Function A

Biology Unit Wise

A cell with a predominance of rough endoplasmic reticulum is most likely:

- (a) Producing large quantities of proteins for secretion
- (b) Producing large quantities of proteins in the cytosol
- (c) Producing large quantities of carbohydrates to assemble an extensive cell wall matrix
- (d) Producing large quantities of carbohydrates for storage in the vacuole

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Biology

Time Remaining 38/45 (Minutes)

Q24

Test 5 Cell Structure and
Function A

Biology Unit Wise

Which organelle often takes up much of the volume of a plant cell?

- (a) Lysosome
- (b) Central vacuole
- (c) Golgi apparatus
- (d) Chloroplast

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Time Remaining: 37/45 (Minutes)

Q25

Test 5 Cell Structure and Function A

Biology Unit Wise

Plasma membrane is composed of _____ lipids:

- (a) 20%-40%
- (b) 40%-60%
- (c) 60%-80%
- (d) 80%-90%

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Time Remaining: 37/45 (Minutes)

Q26

Test 5 Cell Structure and
Function A

Biology Unit Wise

Plasma membrane is composed of _____ proteins:

- (a) 20%-40%
- (b) 40%-60%
- (c) 60%-80%
- (d) 80%-90%

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Biology

Time Remaining: 37/45 (Minutes)

Test 5 Cell Structure and
Function A

Biology Unit Wise

What organism lacks cell wall?

- (a) Plant cells
- (b) Protozoa
- (c) Bacterial cells
- (d) Algae

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Time Remaining: 37/45 (Minutes)

Q25

Test 5 Cell Structure and
Function A

Biology Unit Wise

Amino acids (proteins) are present in the cell walls of:

- (a) Gymnosperms
- (b) Bacteria
- (c) Mosses
- (d) Angiosperms

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Biology

Time Remaining: 36/45 (Minutes)

Q. 23

Test 5 Cell Structure and
Function A

Biology Unit Wise

Plant cell wall consists of how many layers:

- (a) 2
- (b) 3
- (c) 4
- (d) 5

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Time Remaining: 36/45 (Minutes)

Q.30

Test 5 Cell Structure and
Function A

Biology Unit Wise

The thickest of all plant cell walls is:

- (a) Primary cell wall
- (b) Secondary cell wall
- (c) Middle lamella
- (d) All have same thickness

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Time Remaining: 36/45 (Minutes)



Test 5 Cell Structure and
Function A

Biology Unit Wise

The correct sequence of layers of cell wall from inside to outside is:

- (a) Primary cell wall → Secondary cell wall → Middle lamella
- (b) Secondary cell wall → Primary cell wall → Middle lamella
- (c) Middle lamella → Primary cell wall → Secondary cell wall
- (d) Middle lamella → Secondary cell wall → Primary cell wall

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Time Remaining: 36/45 (Minutes)



Test 5 Cell Structure and
Function A

Biology Unit Wise

In secondary cell wall, _____ cements and
anchors cellulose microfibrils together:

- (a) Pectin
- (b) Chitin
- (c) Lignin
- (d) Hemicellulose

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Biology

Time Remaining: 35/45 (Minutes)

Test 5 Cell Structure and
Function A

Biology Unit Wise

Chemically, _____ is about 90% water:

- (a) Cytoplasm
- (b) Cytosol
- (c) Sol
- (d) Cell sap

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Question Answer

[Next](#)[Back](#)



Time Remaining: 35/45 (Minutes)

Q34

Test 5 Cell Structure and
Function A

Biology Unit Wise

Which Is/are the part(s) of cytoplasm?

- (a) Nucleus
- (b) Sol
- (c) Mitochondria
- (d) Both b and c

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Biology

Time Remaining: 35/45 (Minutes)

Q.05

Test 5 Cell Structure and
Function A

Biology Unit Wise

Major portion of the cytosol is:

- (a) Water
- (b) Sol
- (c) Gel
- (d) Organelles

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Correct Answer



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Time Remaining: 35/45 (Minutes)

Q.56

Test 5 Cell Structure and
Function A

Biology Unit Wise

The movement of cyclosis is because of:

- (a) Cilia
- (b) Microtubules
- (c) Intermediate filaments
- (d) Microfilaments

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Time Remaining: 35/45 (Minutes)

Test 5 Cell Structure and
Function A

Biology Unit Wise

**The digestive vacuoles and autophagosomes are
also known as:**

- (a) Glyoxysomes
- (b) Peroxisomes
- (c) Primary Lysosome
- (d) Secondary Lysosome

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Biology

Time Remaining: 34/45 (Minutes)

Q.35

Test 5 Cell Structure and
Function A

Biology Unit Wise

One of the following is not double membranous structure

- (a) Mitochondrion
- (b) Vacuole
- (c) Chloroplast
- (d) Nucleus

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Biology

Time Remaining: 34/45 (Minutes)

Q. 05

Test 5 Cell Structure and
Function A

Biology Unit Wise

Tonoplast is the membrane of:

- (a) Mitochondrion
- (b) Vacuole
- (c) Chloroplast
- (d) Nucleus

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Time Remaining: 34/45 (Minutes)

Q40

Test 5 Cell Structure and
Function A

Biology Unit Wise

Vacuoles are large vesicles that originate from the:

- (a) Endoplasmic reticulum
- (b) Golgi complex
- (c) Plasma membrane
- (d) All of these

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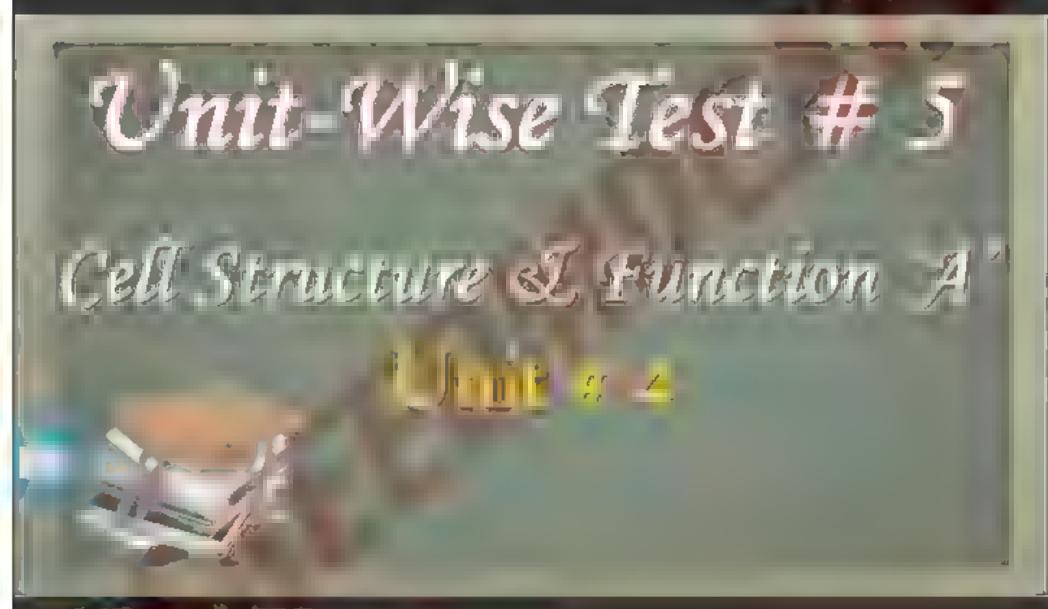
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Question Answer



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Umair Bhatti's screen

01

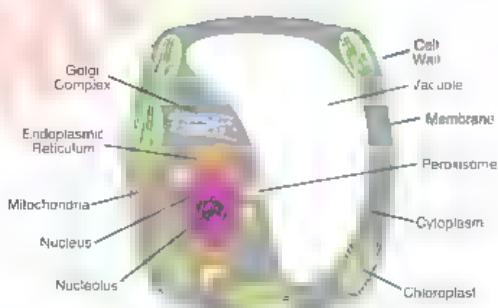
What is the primary difference between prokaryotes and eukaryotes?

- (a) Prokaryotes have cell wall and eukaryotes lack it
- (b) Prokaryotes lack mitochondria while eukaryotes have them
- (c) Prokaryotes do not have distinct nucleus and eukaryotes have a distinct nucleus**
- (d) Both 'a' & 'b'

02

Cytoplasm of plant cell is:

- (a) Less viscous than animal cell
- (b) More viscous than animal cell
- (c) Equal in viscosity to the animal cell
- (d) None of these



03

Regarding Eukaryotes & Prokaryotes, which statement is correct?

- (a) Eukaryotes are multicellular organisms only
- (b) Eukaryotes & Prokaryotes both are multicellular organisms
- (c) Eukaryotes may be unicellular or multicellular organisms**
- (d) Prokaryotes may be unicellular or multicellular organisms

04

The main difference between animal and plant cell is that:

- (a) Animal cell lack rigid cell wall
- (b) Animal cells have vacuoles
- (c) Plant cell lack rigid cell wall
- (d) Plant cells have small vacuoles

05

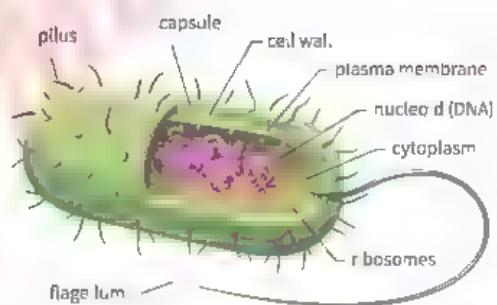
Which of the following organelles is present in both prokaryotic and eukaryotic cells?

- (a) Chloroplast
- (b) Ribosomes**
- (c) Mitochondria
- (d) Golgi Complex

06

A prokaryotic cell lacks:

- (a) True nucleus
- (b) Nuclear envelope
- (c) Membrane bounded organelles
- (d) All the above**



07

Prokaryotic cell does not possess:

- (a) Cell wall
- (b) Nuclear envelope**
- (c) Cytoplasm
- (d) Plasma membrane

08

Protoplasm is the region:

- (a) Between cell membrane & nuclear envelope
- (b) Between cell wall & nuclear envelope
- (c) Inside the cell membrane**
- (d) Inside the nuclear envelope

Learning Outcome

Protoplasm = Plasma membrane + Cytoplasm + Nucleus

Protoplasm = Cytoplasm + Nucleus

09

Plant cells have _____ and _____, which are not present in animal cells:

- (a) Mitochondria, chloroplasts
- (b) Cell membranes, cell walls
- (c) Chloroplasts, nucleus
- (d) Chloroplasts, cell wall**

10

Which of the following is true about protein layers in the plasma membrane?

- (a) Protein layers are continuous
- (b) Protein layers are confined to the surface of the membrane
- (c) Proteins are embedded in lipid layers in a mosaic manner**
- (d) All of the above



11

Main fabric of the plasma membrane is:

- (a) Phospholipids
- (b) Intrinsic proteins
- (c) Extrinsic proteins
- (d) Cholesterol

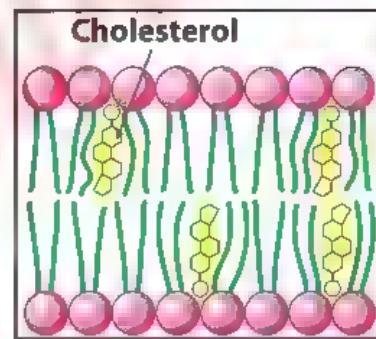
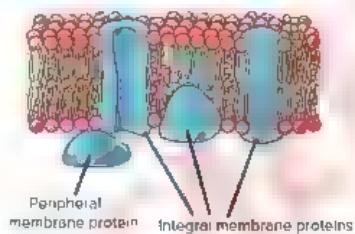
Fabric = Basic structure



12

Tucked between the hydrophobic tails of the membrane phospholipids are present:

- (a) Carbohydrates
- (b) Intrinsic proteins
- (c) **Cholesterol**
- (d) Extrinsic proteins



13

Which one of the following statements is correct?

- (a) The polar portion of cholesterol is facing external to the membrane
- (b) Placement of cholesterol molecules in the membrane interfere the flexibility of lipids hydrocarbon chain
- (c) Cholesterol provides stiffness to membrane
- (d) Cholesterol is absent in bacterial plasma membrane**

Cholesterol helps to keep the membrane fluid consistent.

Cholesterol helps strengthen the bilayer and decrease its permeability

Carbohydrates in plasma membrane are:

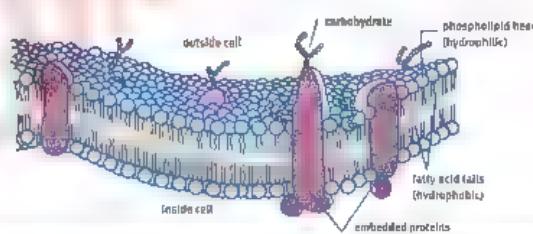
14

(a) Attached to proteins or lipids on the extracellular side of the membrane

(b) On the inner or outer surface of the phospholipid bilayer, but not embedded in its hydrophobic core

(c) Embedded in the phospholipid bilayer; may extend through both layers

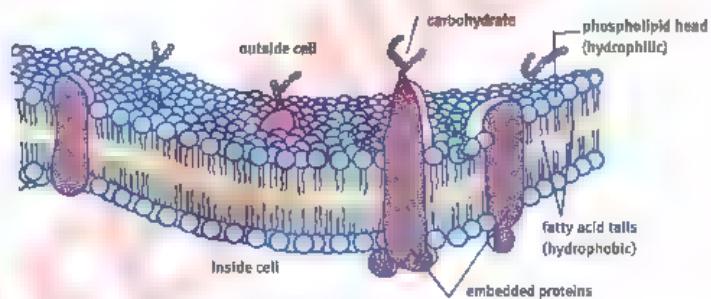
(d) Embedded in the phospholipid bilayer; may not extend through both layers



15

How many layers does fluid mosaic model of plasma membrane have?

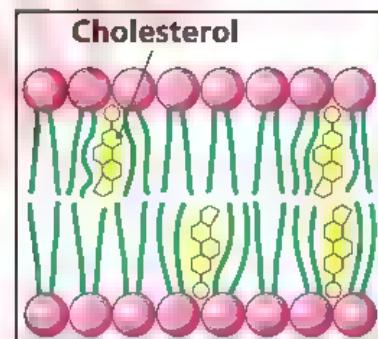
(a) 1
(b) 2
(c) 3
(d) 4



16

The only difference in the prokaryotic and eukaryotic plasma membranes is:

- (a) Number of layers
- (b) Cholesterol**
- (c) Phospholipids
- (d) None of these



17

Plasma membrane is:

- (a) Permeable
- (b) Impermeable
- (c) Differentially permeable**
- (d) None of these

18

The continuous part of the plasma membrane is the:

- (a) Carbohydrate
- (b) Phospholipid bilayer**
- (c) Nucleotides
- (d) Protein



19

Cells are:

- (a) Only found in pairs, because single cells cannot exist independently
- (b) Limited in size to 200 and 500 micrometers in diameter
- (c) Characteristic of eukaryotic but not prokaryotic organisms
- (d) Characteristic of prokaryotic and eukaryotic organisms**

20

In comparison to eukaryotes, prokaryotes:

- (a) Are structurally more complex
- (b) Are larger
- (c) Are smaller**
- (d) Do not have membranes

21

Which of the following are found in plant, animal, and bacterial cells?

- (a) Mitochondria
- (b) Ribosomes**
- (c) Chloroplasts
- (d) Endoplasmic reticulum

22

What is the function of the nuclear pore complex found in eukaryotes?

(a) It regulates the movement of proteins and RNAs into and out of the nucleus

(b) It synthesizes the proteins required to copy DNA and make mRNA

(c) It synthesizes secreted proteins

(d) It assembles ribosomes from raw materials that are synthesized in the nucleus

23

A cell with a predominance of rough endoplasmic reticulum is most likely:

- (a) Producing large quantities of proteins for secretion
- (b) Producing large quantities of proteins in the cytosol
- (c) Producing large quantities of carbohydrates to assemble an extensive cell wall matrix
- (d) Producing large quantities of carbohydrates for storage in the vacuole

24

Which organelle often takes up much of the volume of a plant cell?

- (a) Lysosome
- (b) Central vacuole**
- (c) Golgi apparatus
- (d) Chloroplast

25

Plasma membrane is composed of _____ lipids:

- (a) 20%-40%
- (b) 40%-60%
- (c) 60%-80%
- (d) 80%-90%

26

Plasma membrane is composed of _____ proteins:

- (a) 20%-40%
- (b) 40%-60%
- (c) 60%-80%**
- (d) 80%-90%

27

What organism lacks cell wall?

- (a) Plant cells
- (b) Protozoa**
- (c) Bacterial cells
- (d) Algae

28

Amino acids (proteins) are present in the cell walls of:

- (a) Gymnosperms
- (b) Bacteria**
- (c) Mosses
- (d) Angiosperms

29

Plant cell wall consists of how many layers:

- (a) 2
- (b) 3**
- (c) 4
- (d) 5

30

The thickest of all plant cell walls is:

- (a) Primary cell wall
- (b) Secondary cell wall**
- (c) Middle lamella
- (d) All have same thickness

31

The correct sequence of layers of cell wall from inside to outside is:

- (a) Primary cell wall → Secondary cell wall → Middle lamella
- (b) Secondary cell wall → Primary cell wall → Middle lamella**
- (c) Middle lamella → Primary cell wall → Secondary cell wall
- (d) Middle lamella → Secondary cell wall → Primary cell wall

32

In secondary cell wall, _____ cements and anchors cellulose microfibrils together:

- (a) Pectin
- (b) Chitin
- (c) Lignin**
- (d) Hemicellulose

33

Chemically, ____ is about 90% water:

- (a) Cytoplasm
- (b) Cytosol**
- (c) Sol
- (d) Cell sap

34

Which is/are the part(s) of cytoplasm?

- (a) Nucleus
- (b) Sol
- (c) Mitochondria
- (d) Both b and c**

35

Major portion of the cytosol is:

- (a) Water
- (b) Sol
- (c) Gel
- (d) Organelles

36

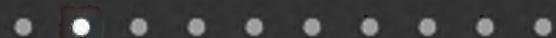
The movement of cyclosis is because of:

- (a) Cilia
- (b) Microtubules
- (c) Intermediate filaments
- (d) Microfilaments**

37

Which of the following is true of integral membrane proteins?

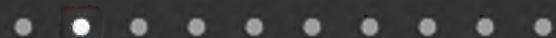
- (a) They lack tertiary structure
- (b) They are loosely bound to the surface of the bilayer
- (c) They are usually transmembrane proteins**
- (d) They are not mobile within the bilayer



38

One of the following is not double membranous structure:

- (a) Mitochondrion
- (b) Vacuole**
- (c) Chloroplast
- (d) Nucleus



39

Tonoplast is the membrane of:

- (a) Mitochondrion
- (b) Vacuole**
- (c) Chloroplast
- (d) Nucleus

40

Vacuoles are large vesicles that originate from the:

- (a) Endoplasmic reticulum
- (b) Golgi complex
- (c) Plasma membrane
- (d) All of these**

